

☒ Bond Report sent
☒ Entered in the NID File
☒ Location map pinned
☒ Approval or Disapproval Letter
 Date Completed, I, S & A, or
 operations suspended 2-21-58
☐ Pin changed on location map
☐ Affidavit and Record of A & P
☐ Water Shut-Off Test
☐ Gas-Oil Ratio Test
☒ Well Log Filed

FILE NOTATIONS

Entered in NID File ✓
 Entered On S R Sheet ✓
 Location Map Pinned ✓
 Card Indexed ✓
 IWR for State or Fee Land ✓

Checked by Chief _____
 Copy NID to Field Office _____
 Approval Letter ✓
 Disapproval Letter _____

COMPLETION DATA:

Date Well Completed 2-21-58
 OW ✓ WW _____ TA _____
 GW _____ OS _____ PA _____

Location Inspected _____
 Bond released _____
 State of Fee Land _____

LOGS FILED

Driller's Log 8-13-58

Electric Logs (No.) 45

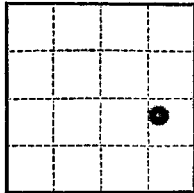
E. _____ I. _____ E-I ✓ GR ✓ GR-N _____ Micro _____
 Lat. _____ Mi-L ✓ Sonic _____ Others Tracer

Leasing Inspection Log 7-9-64

*6-18-76 Subsequent Report of Converting to
Water Injection -*

(SUBMIT IN TRIPLICATE)

Indian Agency _____



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee _____

Lease No. _____

Lease No. 146339

Contract No. 1-149-Ind-9124

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL _____	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF _____	
NOTICE OF INTENTION TO CHANGE PLANS _____		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING _____	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF _____		SUBSEQUENT REPORT OF ALTERING CASING _____	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL _____		SUBSEQUENT REPORT OF REDRILLING OR REPAIR _____	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE _____		SUBSEQUENT REPORT OF ABANDONMENT _____	
NOTICE OF INTENTION TO PULL OR ALTER CASING _____		SUPPLEMENTARY WELL HISTORY _____	
NOTICE OF INTENTION TO ABANDON WELL _____			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Navajo Tribal Indian Lands "J" Fort Worth, Texas, October 15, 1957.

Well No. 3 is located 2035 ft. from SM line and 510 ft. from ^E line of sec. 20

NE 1/4 Sec. 20 40 South 26 East S1M
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Ismy San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4680 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

FORMATIONS EXPECTED	SIZE CASING	CASING PROGRAM (Approx.)
Top of Ismy Limestone	1500' 8-5/8" 24.00# New	Set at 1500' Cement 1000 sz.
	5500' 5-1/2" 14.00# New	5800' 500 sz.
	300' 5-1/2" 15.5# New	

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Texas Company
Address P. O. Bx 1720
Fort Worth, Texas

THE TEXAS COMPANY
By J.J. Velten
Title Division Civil Engineer

The Texas Co. Lse. "H"

Sec. 7

Sec. 8

RANGE 26 EAST

Sec. 9

Sec. 10

Sec. 18

Sec. 17

Sec. 16

Sec. 15

TOWNSHIP
40
SOUTH

The Texas Co. Lse. "K"

Carter Lse.
State - Wooley

2
820'

2040'

Sec. 21

Navajo Indian Tribal Lands "J"

The Texas Co. Lse.
Total 2881.68 Ac.

Sec. 20

Sec. 22

Sec. 19

The Texas Co. Lse. "K"

3
510'

2035'

Sec. 30

Sec. 29

Sec. 28

Sec. 27

UTAH STATE LINE
COLORADO STATE LINE

© - U.S. GLO Marker

SAN JUAN COUNTY, UTAH

Scale 1" = 2000'

This is to certify that the courses, distances and objects reflected on the plat to which this certificate is affixed were observed and compiled under my supervision and, according to my best knowledge and belief, are true and correct.

J. J. Tilton

Division Civil Engineer
The Texas Company

Registered Professional Engineer - State of Texas

October 22, 1957

**The Texas Company
P. O. Box 1720
Fort Worth, Texas**

Attention: J. J. Valten, Division Civil Engineer

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Navajo J-3, which is to be located 2035 feet from the south line and 510 feet from the east line of Section 20, Township 40 South, Range 26 East, SEEM, San Juan County, Utah.

Please be advised that insofar as this office is concerned, approval to drill said well is hereby granted.

This approval terminates within 90 days if the above mentioned well is not spudded in within said period.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

**OLEON B. FREIGHT
SECRETARY**

CBF:en

**cc: Phil McGrath
USGS, Farmington,
New Mexico**

DR-USGS

(SUBMIT IN TRIPLICATE)

Indian Agency

Navajo

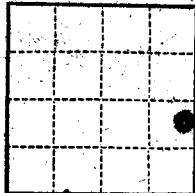
Tribal

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee

Lease No.

I-149-IND-9124



SUNDRY NOTICES AND REPORTS ON WELLS

Notes
2/17

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

January 24, 1958

Navajo Tribe "J"
Well No. 3 is located 2035 ft. from $\begin{Bmatrix} N \\ S \end{Bmatrix}$ line and 510 ft. from $\begin{Bmatrix} E \\ W \end{Bmatrix}$ line of sec. 20
SE $\frac{1}{4}$ of Sec. 20 40-3 26-E SLM
($\frac{1}{4}$ Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Ismay San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4888 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded 4:00 A.M., December 6, 1957.

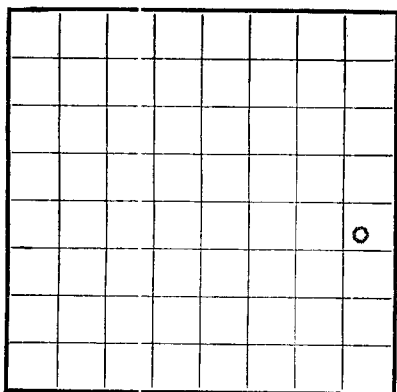
Drilled 17-1/2" hole to 61' and cemented 50' of 13-3/8" OD casing at 61' with 125 sacks cement. Cement circulated.

Drilled 11" hole to 1497' and cemented 1485' of 8-5/8" OD casing at 1497' with 1300 sacks cement. Cement circulated. Tested casing with 800# pressure for 30 minutes. Tested O.K.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Texas Company
Address Box 817
Farmington, New MexicoBy
Title Dist. Sup't.

U. S. LAND OFFICE Navajo Tribal
SERIAL NUMBER I-149-IND-9124
LEASE OR PERMIT TO PROSPECT _____



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company The Texas Company Address Box 817, Farmington, N. M.
Lessor or Tract Navajo Tribe "J" Field Isamay State Utah
Well No. 3 Sec. 20 T. 40-S R. 26-E Meridian SLM County San Juan
Location 2035 ft. N of 8 Line and 510 ft. W of E Line of Section 20 Elevation 4388'
(Derrek floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Date August 11, 1958

Signed

Title Dist. Sup't.

The summary on this page is for the condition of the well at above date.

Commenced drilling December 6, 1957 Finished drilling January 7, 1958

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5514' to 5566' No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from None to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
13-3/8	48	8R	Smis	50	None	None			
8-5/8	24	8R	Smis	1485	Baker	None			
5-1/2	16	8R	Smis	5500	Baker	None			
5-1/2	15.5	8R	Smis	95	Baker	None			

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	61	125	Halliburton		
8-5/8	1427	1300	Halliburton		
5-1/2	5005	250	Halliburton		

PLUGS AND ADAPTERS

Heaving plug—Material None Length -- Depth set --
Adapters—Material None Size --

SHOOTING RECORD

13-3/8	61	125	Halliburton
8-5/8	1497	1300	Halliburton
5-1/2	5605	250	Halliburton

PLUGS AND ADAPTERS

Heaving plug—Material None Length -- Depth set --

Adapters—Material None Size --

SHOOTING RECORD						
Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
None						

TOOLS USED

Rotary tools were used from 0 feet to 5605 feet, and from -- feet to -- feet

Cable tools were used from -- feet to -- feet, and from -- feet to -- feet

Completed Well February 21, 1958 **DATES** (Pump Test) Tested August 2, 1958

The production for the first 24 hours was 120 barrels of fluid of which 75% was oil; --% emulsion; 25% water; and --% sediment. Gravity, °Bé. 42°

If gas well, cu. ft. per 24 hours -- Gallons gasoline per 1,000 cu. ft. of gas --

Rock pressure, lbs. per sq. in. -- (Pumping test was taken with 1-1/2" x 18" pump, 74" stroke, 14 strokes per minute)

EMPLOYEES

Jack Beck, Driller O. L. Brandon, Driller

M. W. Barber, Driller , Driller

FORMATION RECORD			
FROM—	TO—	TOTAL FEET	FORMATION
0	240	240	Sand
240	446	206	Sand & Shale
446	668	222	Sand
668	1185	517	Sand & Shale
1185	1442	257	Sand
1442	4597	3155	Sand & Shale
4597	5206	609	Shale & Lime
5206	5240	34	Lime
5240	5415	175	Lime & Shale
5415	5465	50	Shale & Anhydrite
5465	5515	50	Lime, Dolomite & Anhydrite
5515	5588	73	Lime
5588	5605	17	Lime & Shale
Total Depth 5605'			
Plugged Back Depth 5568'			

(OVER)

16-43094-4

FORMATION RECORD—Continued

89812 1508

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
FORMATION TOPS			
			Chinle - - - - - 1510'
			Shinarump - - - - - 2525'
			Hoskinnini - - - - - 2560'
			DeChelly - - - - - 2642'
			Organ Rock - - - - - 2705'
			Hermosa - - - - - 4515'
Formation Tops as per EL.			
HOLE SIZE			
0 to 61' - 17-1/2"			
61' to 1497' - 11"			
1497' to 5605' - 7-7/8"			
DEVIATION TESTS			
			450' - 1/2°
			953' - 1/2°
			1487' - 1/2°
			1990' - 3/4°
			2400' - 1/2°
			3050' - 1-1/2°
			3470' - 3/4°
			4055' - 3/4°
			4557' - 1/4°
			5045' - 1/2°
			5555' - 1/2°
FORMATION RECORD			
Core #1, 5415' to 5465'	Recovered 50'	Shale & Anhydrite.	
Core #2, 5465' to 5515'	Recovered 50'	Lime, Dolomite & Anhydrite.	
Core #3, 5515' to 5565'	Recovered 50'	Lime.	
Core #4, 5565' to 5588'	Recovered 23'	Lime.	
Core #5, 5588' to 5605'	Recovered 16'	Lime & Shale.	
DST #1, 5545' to 5588'	Tool open 3 hours with a good blow of air and gas to surface in 18 minutes. Recovered 1220' of heavy oil and gas out drilling mud and 330' of heavy gas cut salt water.		
All measurements from derrick floor, 10' above ground.			
SHOOTING RECORD			
SPACE AND VOLUME			

[illegible]

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

After drilling to 5505' and cementing 5-1/2" casing, top of cement was found to be at 5531'. Perforated 5-1/2" casing from 5552' to 5574' with 4 jet shots per foot. Acidized with 500 gallons mud acid. Swabbed 14 barrels of load oil and 101 barrels of salt water in 19 hours. Set retainer at 5547' and squeezed perforations with 100 sacks of cement. Drilled out retainer and cement to 5557'. Perforated casing from 5552' to 5566' with 4 jet shots per foot. Acidized perforations through tubing with 500 gallons regular 15% acid. Swabbed 85 barrels of fluid in 14 hours, 90% salt water. Set retainer at 5542' and squeezed perforations 5562' to 5566' with 50 sacks cement. Drilled out retainer and cement to 5568' (P.R.T.D.). Reperforated 5-1/2" casing from 5552' to 5566' with 2 torpedo jet shots per foot. Washed perforations with 500 gallons regular 15% acid. Swabbed dry and rewashed perforations with 2 barrels of break down acid followed by 1000 gallons of regular 15% acid. Swabbed load oil and reacidized perforations with 1000 gallons regular 15% acid. Washed by and put 10 barrels acid in formation. After swabbing well down, swabbed 32 barrels of new oil and 6 barrels of salt water in 24 hours. Set retainer at 5558' and spotted 3 gallons cement on top of retainer. Perforated 5-1/2" casing from 5514' to 5532' with 4 jet shots per foot. Acidized perforations 5514' to 5532' through tubing with 1000 gallons regular 15% acid. Washed by and put 12 barrels of acid in formation. Swabbed well down and reacidized perforations with 1000 gallons regular 15% acid. Swabbed well down and reacidized with 2000 gallons emulsion breaker. Drilled out cement plug and retainer. After swabbing well down, swabbed 51 barrels of oil and 30 barrels of salt water in 24 hours.

reuben

POLYMER LETTERS COMMISSION

[illegible]

TOC OF OIG ON EYE MATT

GEOLOGICAL SYMBOLS

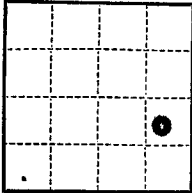
DEVELOPMENT OF THE INTERIOR

UNITED STATES

RECEIVED 3 JULY 1993; IN FINAL FORM 15 SEPTEMBER 1993

2014年7月16日

REFERENCES



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency Navajo
Tribal

Allottee _____

Lease No. I-149-IND-9124

71K
3-17

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF REDRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

March 13, 19 58

Navajo Tribe "J"

Well No. 3 is located 2035 ft. from [N] line and 510 ft. from [E] line of sec. 20

SE1 of Sec. 20 40-S 26-E S1M
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Ismay San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4888 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Drilled 7-7/8" hole to 5605' and cemented 5595' of 5-1/2" O.D. casing at 5605' with 250 sacks of cement and 300 gallons cement. Top of cement 4230'. Tested casing with 800' pressure for 30 minutes. Tested OK.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

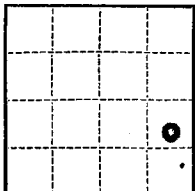
Company The Texas Company

Address P.O. box 817

Farmington, New Mexico

By _____

Title District Superintendent



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Indian Agency NavajoTribal

Allottee _____

Lease No. I-149-IND-9124

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	X
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Navajo Tribe "J"

August 8, 1958

Well No. 2 is located 2035 ft. from N line and 510 ft. from E line of sec. 20311 of sec. 20
(1/4 Sec. and Sec. No.)40-S
(Twp.)26-E
(Range)SLM
(Meridian)Ismay

(Field)

San Juan

(County or Subdivision)

Utah

(State or Territory)

The elevation of the derrick floor above sea level is 4888 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Total depth 5605'. Plugged back depth 5568'.

Perforated 5-1/2" casing from 5562' to 5574' with 4 jet shots per foot. Acidized with 500 gallons mud acid. Swabbed 14 barrels of load oil and 101 barrels of salt water in 19 hours. Set retainer at 5547' and squeezed perforations with 100 sacks of cement. Rilled out retainer and cement to 5567'. Perforated casing from 5562' to 5566' with 4 jet shots per foot. Acidized perforations through tubing with 500 gallons regular 15% acid. Swabbed 15 barrels of fluid in 14 hours, 90 salt water. Set retainer at 5542' and squeezed perforations 5562' to 5566' with 50 sacks cement. Rilled out retainer and cement to 5561'. Perforated 5-1/2" casing from 5562' to

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Texas CompanyAddress Box 317Farmington, New MexicoBy C. H. McNealTitle Asst. Dist. Supt.

5566' with 2 torpedo jet shots per foot. Washed perforations with 500 gallons regular 15% acid. Swabbed dry and rewashed perforations with 2 barrels of break down acid followed by 1000 gallons of regular 15% acid. Swabbed load oil and reacidized perforations with 1000 gallons of regular 15% acid. Washed by and put 10 barrels acid in formation. After swabbing well down, swabbed 32 barrels of new oil and 6 barrels of salt water in 24 hours. Set retainer at 5558' and spotted 3 gallons cement on top of retainer. Perforated 5-1/2" casing from 5514' to 5532' with 4 jet shots per foot. Acidized perforations 5514' to 5532' through tubing with 1000 gallons regular 15% acid. Washed by and put 12 barrels of acid in formation. Swabbed well down and reacidized perforations with 1000 gallons regular 15% acid. Swabbed well down and reacidized with 2000 gallons emulsion breaker. Drilled out cement plug and retainer. After swabbing well down, swabbed 61 barrels of oil and 30 barrels of salt water in 24 hours.

AUG 13 1958

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee _____

Lease No. X-149-IND-9124

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	X
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	X
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Navajo Tribe "J" March 12, 1963
Well No. 3 is located 2035 ft. from [S] line and 510 ft. from [E] line of sec. 20
S&T of Sec. 20 40-S 26-E SLM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Isamay San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4888 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Commenced workover 12-13-62.

Reason for workover was to increase production by perforating and treating additional zones in Subzones II and III of the Isamay Pay Zone.

Perforated 5-1/2" casing from 5490' to 5493', 5496' to 5500' and 5550' to 5553' with 2 jets per foot. Ran tubing with retrievable bridge plug and packer. Set bridge plug at 5557' and packer at 5542'. Treated perforations from 5550' to 5553' with 500 gallons of NELST acid. Injection rate 2 barrels per minute. Moved bridge plug to 5542' and packer to 5506'. Treated perforations

(Over)

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company TEXACO Inc.

Address Box 810

Farmington, New Mexico

By [Signature]

Title District Accountant

5514' to 5532' with 3000 gallons of retarded acid. Treating pressure 2400 to 900 PSI with an average injection rate of 2.3 barrels per minute. Reset bridge plug at 5506' and packer at 5475'. Treated perforations 5490' to 5500 with 500 gallons of WELST acid followed by 2000 gallons of retarded acid. Treating pressure 3000 to 900 PSI with an average injection rate of 2 barrels per minute. 5 Minute shut in pressure 200 PSI. After completing treatment, pulled tubing with packer and bridge plug. Reran tubing and rods and after recovering load oil and acid residue, pumped 61 barrels of oil and 28 barrels of water on 24 hour test ending 12-19-62. Length of pump stroke 64" with 12 strokes per minute.

MAR 18 1963

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TR.
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

I-149-IND-9124

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Navajo Tribe "J"

9. WELL NO.

3

10. FIELD AND POOL, OR WILDCAT

Ismay

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

20, 40-S, 26-E, SLM

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

TEXACO Inc.

3. ADDRESS OF OPERATOR

Box 810, Farmington, New Mexico

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

2035' from South Line and 510' from East Line

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4888' DF

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☒

(Other) ☐

REPAIRING WELL ☒

ALTERING CASING ☐

ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Moved in pulling unit and commenced workover 9-7-64.

Reason for remedial work was to cleanout hole and wash perforations with acid.

Pulled rods and tubing and attempted to load hold with oil and establish circulation. After being unable to establish circulation, ran casing inspection log. Ran sand pump and cleaned out fillup from 5540' to 5568'. Acidized perforations from 5490' to 5565' with 500 gallons of regular 15% acid. Average injection rate 1-1/2 barrels per minute with no injection pressure. After completing treatment, shut well in three hours. Swabbed well until load oil and acid residue were recovered and returned well to pumping. On test ending 9-15-64, pumped 31 barrels of 41 gravity oil and 29 barrels of water in 24 hours. Length of pump stroke 54" with 124 strokes per minute.

18. I hereby certify that the foregoing is true and correct

SIGNED

[Signature]

TITLE **Acting District Supt.**

DATE **10-9-64**

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN THE DATE*
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	5. LEASE DESIGNATION AND SERIAL NO. I-149-IND-9124
2. NAME OF OPERATOR TEXACO Inc.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR Box 810, Farmington, New Mexico 87401	7. UNIT AGREEMENT NAME Isaac Floding Park Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2035 ft. f/ So. & 510 ft. f/ E. lines	8. FARM OR LEASE NAME
14. PERMIT NO.	9. WELL NO. W-320
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4888 DF	10. FIRED AND POOL, OR WILDCAT Isaac
	11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA 20-408, 26E, 31N
	12. COUNTY OR PARISH San Juan
	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other)

Convert to Water Injection X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion or Well Completion or Recombination Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Well will be converted to water injection service for the expansion of the waterflood into Area "B". Also subzone IV will be opened to injection.

Pull rods & tubing. Drill out 5568 to 5600. Run retrievable packer and set @ 2275 & test 5 1/2" csg. above packer w/ 1500 psi. Perf. 5566-5596 w/ 2 shots per ft. Run Baker Model "N" retainer prod. pkr. on plastic lined tbg. Displace annulus w/ inhibited water & set pkr @ 5435. Acidize perforations in 3 stages w/ 12,000 gal. 28% HCL, 24,000 gal. flush & 4500# diverting agent. Place on injection.

APPROVED BY DIVISION OF
OIL & GAS CONSERVATIONDATE **1-5-70**BY **Paul H. Burchell**

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE **Dist. Supt.**DATE **12-24-69**

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

*See Instructions on Reverse Side

USGS(3)OGCC(2)HNB-WLW(2)GLE-Navajo Tribe

SKE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPL.
(Other instructions on re-
verse side)Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Water Injection		5. LEASE DESIGNATION AND SERIAL NO. I-149-DD-9124
2. NAME OF OPERATOR TEXACO Inc. - Prod. Dept. West		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR P. O. Box 810, Farmington, New Mexico 87401		7. UNIT AGREEMENT NAME Isamay Flodine Park
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2035 ft. f/So. & 510 ft. f/E. Lines		8. FARM OR LEASE NAME
14. PERMIT NO.		9. WELL NO. V-320
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4888 DF		10. FIELD AND POOL, OR WILDCAT Isamay
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 20-40S-26E-S1M
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐

(Other)

REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐**Conversion to Water Inj** ☒
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Pulled rods & tbg. Dld. out 5478-5598. Perf. 5-1/2" csg. 5566-96 w/ 2 jets per ft. Ran 2-3/8" plastic coated tbg. (inside) w/ Baker Mod. N. pkr. set @ 5440. Acid perfs. in 4 stages w/ 12,000 gal. 28% HCL, flush w/ 24,000 gal. w/ 4500# salt plug. ISIP 2200 psi, 15 min SI 600#, Work completed 3/22/70. 24 hr. Inj. Test 442 BW @ 3000 psi. Prod. before WO - 7 BO, 5 BW. Successful NRTWO.

18. I hereby certify that the foregoing is true and correct

SIGNED

SIGNED: G. L. SATON

TITLE **Dist. Superintendent**DATE **6/18/70**

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

USGS(3)OGCC(2)Navajo Tribe-HHB-GLE-WLW(2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☐ other **Wtr. Injection**
2. NAME OF OPERATOR
Texaco Inc.
3. ADDRESS OF OPERATOR
P.O. Box EE, Cortez, CO 81321
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: **2035' FSL & 510' FEL, Sec.20**
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☒PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐CHANGE ZONES ☐ABANDON* ☐(other) ☐

5. LEASE
I-149-IND-9124
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo
7. UNIT AGREEMENT NAME
Ismay-Flodine Park Unit
8. FARM OR LEASE NAME
9. WELL NO.
V320
10. FIELD OR WILDCAT NAME
Ismay-Flodine Park
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 20, T40S, R26E
12. COUNTY OR PARISH **San Juan** 13. STATE **Utah**
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)
4888 DF

(NOTE: Report results of multiple completion or zone

completion.)

APPROVED BY THE DIVISION OF
OIL, GAS, AND MININGDATE: **3/17/80**

17. DESCRIBE PROPOSED OR COMPLETED OPERATION. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Texaco Inc. plans to test for a casing leak in Ismay-Flodine Park Unit Well V320 and repair if necessary. All work will be done in accordance with USGS and UOGCC regulations. Proposed procedure is as follows:

1. Pull tubing and packer.
2. Run tubing and full-bore packer and locate casing leak.
3. Squeeze cement leaks as required. Drill out cement.
4. Run plastic-coated tubing and packer. Set packer at 5450' KB and inhibit tubing-casing annulus.
5. Place well on injection.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Alvin R. Mary TITLE Field Foreman DATE 3-14-80

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

USGS(4) UOGCC(3) Navajo Tribe-GLE-ARM

*See Instructions on Reverse Side

RECEIVED

MAR 17 1980

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well ☐ gas ☐ well ☐ other **Water Injection**2. NAME OF OPERATOR
TEXACO Inc.3. ADDRESS OF OPERATOR
P.O. Box EE, Cortez, CO. 813214. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2035' FSL & 510' FEL Sec. 20
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐
FRACTURE TREAT ☐
SHOOT OR ACIDIZE ☐
REPAIR WELL ☐
PULL OR ALTER CASING ☐
MULTIPLE COMPLETE ☐
CHANGE ZONES ☐
ABANDON* ☐
(other) ☐

SUBSEQUENT REPORT OF:

☐
☐
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☐
☐
☐
☐

5. LEASE

I-149-IND-91246. IF INDIAN, ALLOTTEE OR TRIBE NAME
NAVAJO7. UNIT AGREEMENT NAME
Ismay-Flodine Park Unit

8. FARM OR LEASE NAME

9. WELL NO.
V32010. FIELD OR WILDCAT NAME
Ismay-Flodine Park11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 20, T40S, R26E12. COUNTY OR PARISH
San Juan13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4888 DF

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

5-27-81 **MIRUSU. Pulled tubing to part. Fish tubing with overshot. Ran RBP and full bore packer testing for casing leak. No leak discovered. Drilled out Model N packer. Cleaned out hole to 5598 KB. Ran tubing and Model R packer. Set packer at 5422 KB. Placed well on injection.****TEST BEFORE- SHUT IN**
TEST AFTER - 364 BWIPD/2068 psi

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED *Alvin R. Mary* TITLE **Field Supt.** DATE **7-16-81**

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

USGS(4) UOGCC(3) Navajo Tribe CDF ARM

FORM NO. DOGM-UIC-1

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING
ROOM 4241 STATE OFFICE BUILDING
SALT LAKE CITY, UTAH 84114
(801) 533-5771
(RULE 1-5)

IN THE MATTER OF THE APPLICATION OF

Texaco Inc.
ADDRESS P. O. Box EE
Cortez, Colorado ZIP 81321
INDIVIDUAL PARTNERSHIP CORPORATION X
FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR
INJECT FLUID INTO THE IFPU - V320 WELL
SEC. 20 TWP. 40S RANGE 26E
San Juan COUNTY, UTAH

CAUSE NO. _____

ENHANCED RECOVERY INJ. WELL ☒
DISPOSAL WELL ☐

APPLICATION

Comes now the applicant and shows the Division the following:

1. That Rule 1-5 (b) 6 authorizes administrative approval of enhanced recovery injections or disposal operations.
2. That the applicant submits the following information.

Lease Name <u>Ismay-Flodine Park</u>		Well No. <u>V320</u>	Field <u>Ismay</u>	County <u>San Juan</u>
Location of Enhanced Recovery Injection or Disposal Well <u>NE 1/4 SE 1/4</u> Sec. <u>20</u> Twp. <u>40S</u> Rge. <u>26E</u>				
New Well To Be Drilled Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Old Well To Be Converted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Test Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Date <u>5-27-81</u>
Depth-Base Lowest Known Fresh Water Within 1/2 Mile <u>900'</u>		Does Injection Zone Contain Oil-Gas-Fresh Water Within 1/2 Mile YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		State What <u>Oil & Gas</u>
Location of IFPU Producing Wells Injection Source(s) <u>3 Source wells</u>		Geologic Name(s) and Depth of Source(s) <u>Ismay +/- 5600</u> <u>Salt Wash, Entrada & Navajo</u> <u>400'-1215'</u>		
Geologic Name of Paradox-Ismay Injection Zone		Depth of Injection Interval <u>5490</u> to <u>5596</u>		
a. Top of the Perforated Interval: <u>5490</u>		b. Base of Fresh Water: <u>900'</u>		c. Intervening Thickness (a minus b) <u>4590'</u>
Is the intervening thickness sufficient to show fresh water will be protected without additional data? (YES) NO				
Lithology of Intervening Zones <u>Sandstone, Limestone, Anhydrite w/intermittent shale layers</u>				
Injection Rates and Pressures Maximum <u>500 B/D</u> <u>2300 PSI</u>				
The Names and Addresses of Those To Whom Copies of This Application and Attachments Have Been Sent <u>The Navajo Tribe</u> <u>Box 146</u> <u>Window Rock, Arizona 86515</u>				

State of ColoradoCounty of Montezuma

Alvin R. Marx
Applicant

Field Supt.

Before me, the undersigned authority, on this day personally appeared Alvin R. Marx

known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states, that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct.

Subscribed and sworn to before me this 16th day of Dec., 19 83

SEAL

My commission expires 10/25/87

Joe D. Roybal
Notary Public in and for Colorado

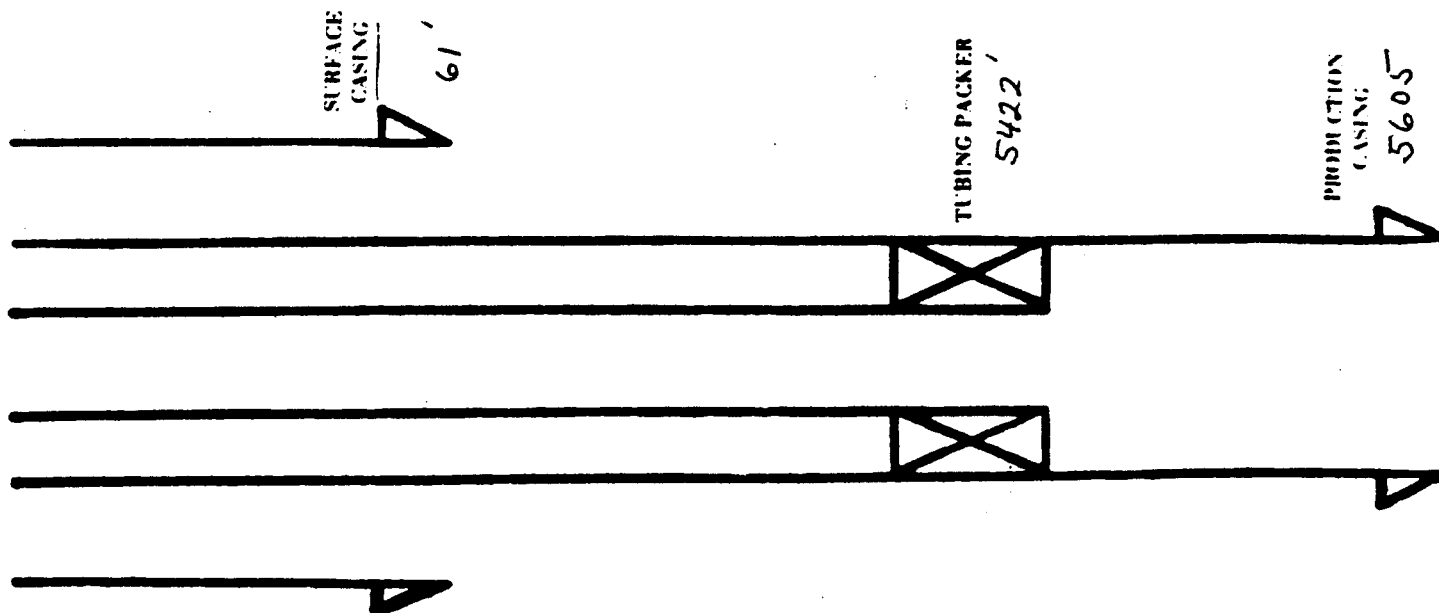
(OVER) 728 N. Beech, Cortez, Co. 81321

1. Attach qualitative and quantitative analysis of fresh water from 2 or more producing wells within 1 mile of injection well showing location of wells and date samples were taken, or statement as to why samples were not submitted.
2. Attach qualitative and quantitative analysis of representative sample of water to be injected.
3. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within ½ mile, together and with name of operator.
4. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division.)
5. Attach Electric or Radioactivity Log of Subject well (if released).
6. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.
7. The original and 6 copies of application, and one complete set of attachments shall be mailed to the Division.
8. Deliver 1 copy of application to landowner on whose land injection well is located and to each operator of a producing leasehold within ½ mile of injection well.
9. Affidavit of mailing or delivery shall be filed not later than five days after the application is filed.
10. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county in which the well is located. The Division shall file proof of publication before the application is approved. The notice shall include name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application will be approved administratively.
11. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed September 1st, each year.
12. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.
13. If there is less intervening thickness required by Rule I-5 (b) 4 attach sworn evidence and data.

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	13 3/8"	61	125	Circulated	
Intermediate	8 5/8"	1497	1300	Circulated	
Production	5 1/2"	5605	250	4230	Calculated
Tubing	2 3/8"	5422	5 1/2" MODER BAKER PC Retractable		
Total Depth		Geologic Name - Inj. Zone		Depth - Top of Inj. Interval	
5605		IS MAY		5490	
				Depth - Base of Inj. Interval	
				5596	

SKETCH - SUBSURFACE FACILITY



PLEASE TYPE OR USE BLACK INK ONLY

(To be filed within 30 days after drilling is completed)

I-149-IND-9124

DEPARTMENT OF NATURAL RESOURCES AND ENERGY

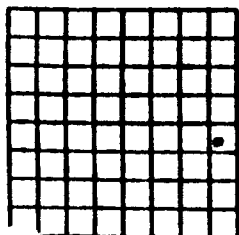
DIVISION OF OIL, GAS, AND MINING

Room 4241 State Office Building

Salt Lake City, Utah 84114

API NO

640 Acres



Locate Well Correctly
and Outline Lease

COUNTY San SEC. 20 TWP. 40S ROE. 26E

COMPANY OPERATING Juan Texaco Inc.

OFFICE ADDRESS P. O. Box EE

TOWN Cortez STATE COLO ZIP 81321

FARM NAME Ismay-Flodine WELL NO. V320

DRILLING STARTED 12-6-57 DRILLING FINISHED Feb 1958

DATE OF FIRST PRODUCTION _____ COMPLETED 2-21-58

WELL LOCATED NE 1/4 NE 1/4 SE 1/4

2035 FT. FROM SE 1/4 OF SEC. & 510 FT. FROM NE 1/4 OF SEC.

ELEVATION DERRICK FLOOR 4888 GROUND 4879

TYPE COMPLETION

Single Zone ISMA Order No. N4

Multiple Zone _____ Order No. _____

Comingled _____ Order No. _____

LOCATION EXCEPTION

Order No. _____ Penalty _____

OIL OR GAS ZONES

Name	From	To	Name	From	To
<u>ISMA</u>	<u>5480</u>	<u>5591</u>			

CASING & CEMENT

Casing Set				Csg. Test	Cement		
Size	Wgt	Grade	Feet	Psi	Size	Fitup	Top
<u>13 7/8"</u>	<u>48</u>		<u>61</u>	<u>125</u>			<u>circulated</u>
<u>8 5/8"</u>	<u>24</u>		<u>1497</u>	<u>1300</u>			<u>circulated</u>
<u>5 1/2"</u>	<u>14 1/2</u>	<u>15.5</u>	<u>5605</u>	<u>250</u>			<u>4230</u>

TOTAL DEPTH 5605

PACKERS SET
DEPTH 5422

COMPLETION & TEST DATA BY PRODUCING FORMATION

FORMATION	1	2	3
ISMA	<u>ISMA</u>		
SPACING & SPACING ORDER NO.	<u>80 acre</u>		
CLASSIFICATION (Oil; Gas; Dry; Inj. Well)	<u>OIL</u>	<u>3/22/70</u> <u>Con to WF</u>	
PERFORATED	<u>5440-5500</u>	<u>5566-5596</u>	
INTERVALS	<u>5414-32</u>		
	<u>5550-53</u>		
	<u>5562-66</u>		
ACIDIZED?	<u>4500 gal 15% HCL</u>	<u>12,000 gal 28% HCL</u>	
FRACTURE TREATED?			

INITIAL TEST DATA

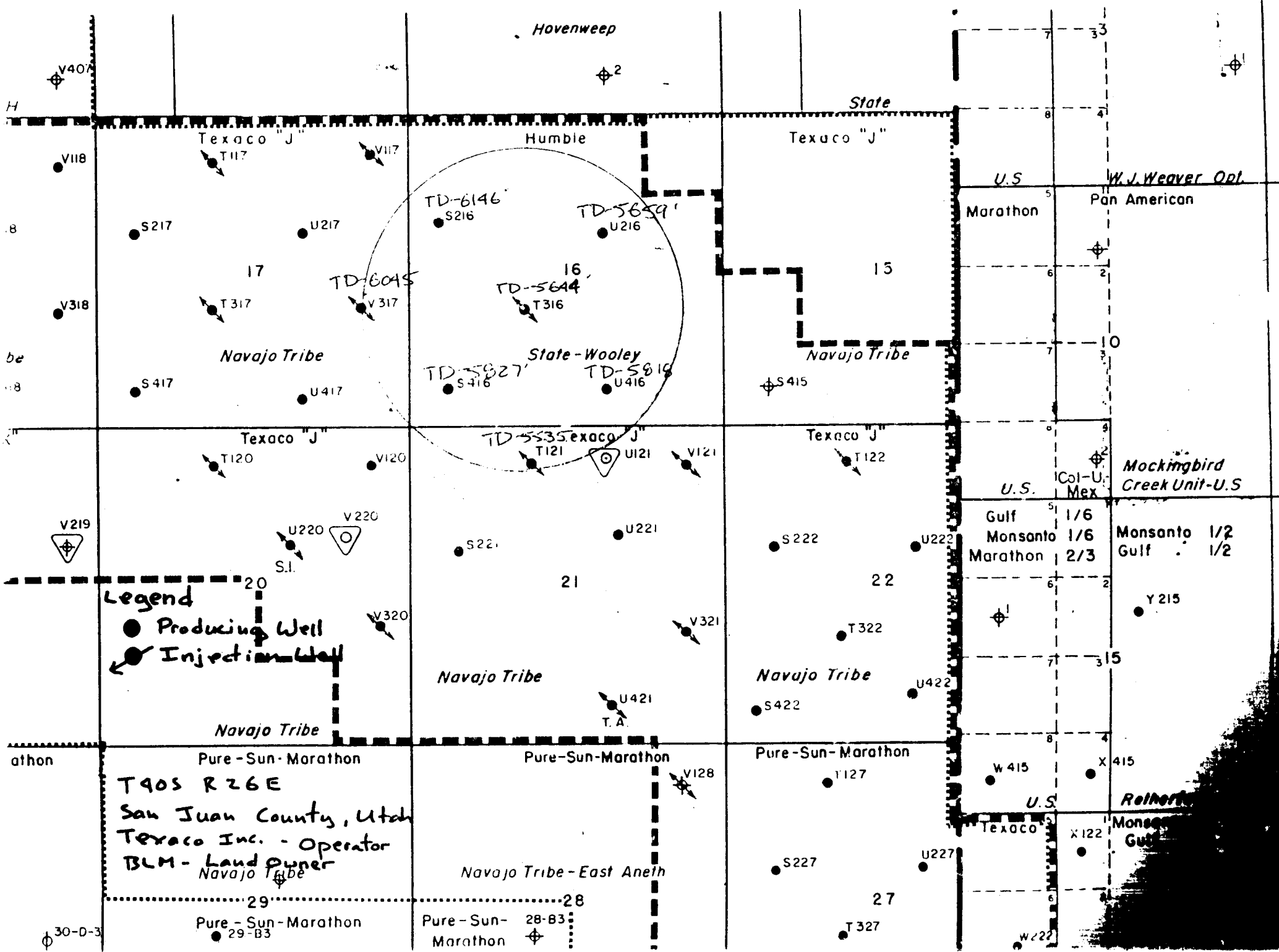
Date	<u>2-21-58</u>	<u>3/22/70</u>	
Oil bbl./day	<u>60 BOPD</u>		
Oil Gravity			
Gas Cu. Ft./day			
Gas-Oil Ratio Cu. Ft./Bbl.			
Water-Bbl./day	<u>30 BWPD</u>	<u>442/BWIPD/3000 PSI</u>	
Pumping or Flowing	<u>FLOWING</u>		
CHOKE SIZE			
FLOW TURNING PRESSURE			

A record of the formations drilled through, and pertinent remarks are presented on the reverse.
(use reverse side)

I, the undersigned, being first duly sworn upon oath, state that this well record is true, correct and complete according to the records of this office and to the best of my knowledge and belief.

Telephone 1-303-565-8401 Phm R. Mary Field Supt
State of Colorado Name and title of representative of company

County of Montezuma 16th December 1983
Subscribed and sworn before me this 10/25/87 day of Oct
My commission expires 10/25/87 Joe A. Hrydel
728 N. Beech, Cortez, Co. 81321



Hovenweep

State

Texaco "J"

Humble

Texaco "J"

U.S.

W.J. Weaver Opl.

Marathon

Pan American

Navajo Tribe

Navajo Tribe

Texaco "J"

Texaco "J"

Texaco "J"

U.S.

Col-U.

Mockingbird Creek Unit-U.S.

Gulf

1/6

Monsanto

1/6

Marathon

2/3

Monsanto

1/2

Gulf

1/2

Legend

● Producing Well

⬅● Injection Well

Navajo Tribe

Navajo Tribe

Navajo Tribe

Pure-Sun-Marathon

Pure-Sun-Marathon

Pure-Sun-Marathon

U.S.

Reliance

Texaco

Monsanto

Gulf

Pure-Sun-Marathon

Pure-Sun-Marathon

27

28-B3

W222

29-B3

Marathon

T327

28-B3

W222

29-B3

Marathon

T327

28-B3

W222

29-B3

Marathon

T327

28-B3

W222

29-B3

Marathon

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Marathon

T327

28-B3

INSTRUCTIONS - CANCEL LETTERS IF OF

SIGNED BY

TEXACO

☐ PERMANENT☐ ROUTINE☐ TEMPORARY

19

(LOCATION)

(DATE)

Subject: Water Analysis from
Navajo Aquifer

Aneth Unit H415

Location - SE 1/4 - SE 1/4 Sec 15, T40S, R24E

Sample Date - 1-17-59

Depth - Navajo Aquifer

Temp - 67°F

Ph - 8.7

Total Dissolved Solids - 2573 ppm

SiO₂ - 16 ppmCO₃⁼ - 130 ppmCa⁺⁺ - 7 ppmHCO₃⁻ - 156 ppmMg⁺⁺ - 28 ppmSO₄⁼ - 599 ppmNa⁺ - 76 ppmCl⁻ - 757 ppm

Aneth Unit G422

Location - SW 1/4 - SE 1/4 Sec 22, T40S, R24E

Sample Date - 1-18-59

Depth - Navajo Aquifer

Temp - 67°F

Ph - 9.2

Total Dissolved Solids - 2823 ppm

SiO₂ - 17 ppmCO₃⁼ - 925 ppmCa⁺⁺ - 6 ppmHCO₃⁻ - 912 ppmMg⁺⁺ - 8 ppmSO₄⁼ - 265 ppmNa⁺ - 915 ppmCl⁻ - 271 ppm* Note: these numbers were obtained from Texaco Files
in the Denver Division offices.

If letter requires reply prepare in triplicate, forwarding original and duplicate, and retain copy.

P.O. Box 2100

Denver, Colo.

80201

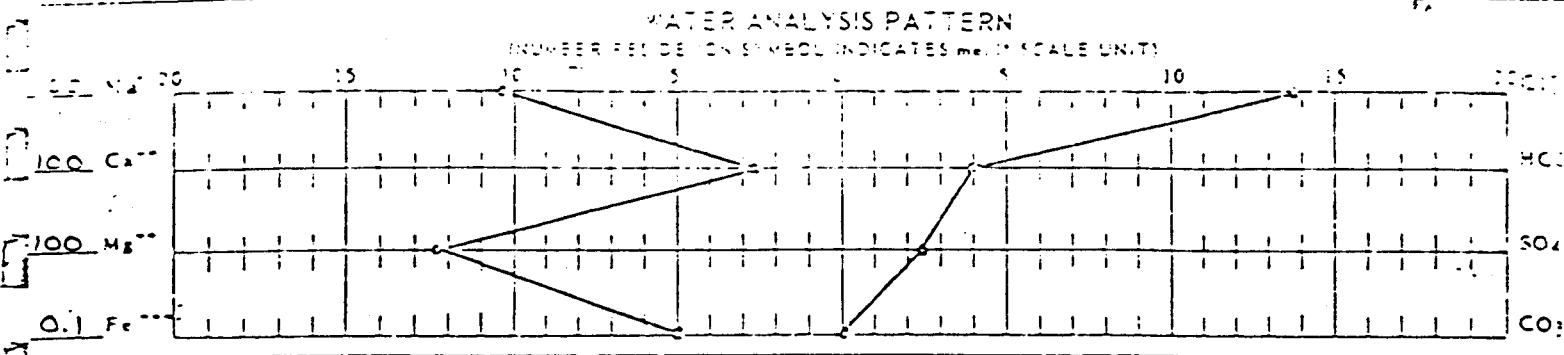
By

NL Treating Chemicals/NL Industries, Inc.

P.O. Box 1675, Houston, Texas 77001

WATER ANALYSIS REPORT

COMPANY TEXACO, INCORPORATED						SHEET NUMBER 1
DATE 5 APRIL 1982						
FIELD ANETH				COUNTY OR PARISH SAN JUAN	STATE UTAH	
WELL OR NAME OF NO. ANETH		WATER SOURCE INFORMATION INJECTION WATER				
DEPTH, FT.	SAT. P.	SAMPLE SOURCE PLANT	TEMP. F.	WATER, GPD/DAY	DIL. GPD/DAY	
DATE SAMPLED 5 APRIL 1982		TYPE OF WATER <input type="checkbox"/> PRODUCED <input checked="" type="checkbox"/> SUPPLY <input checked="" type="checkbox"/> WATERFLOOD <input type="checkbox"/> SALT WATER				



DISSOLVED SOLIDS			DISSOLVED GASES	
CATIONS	me/l*	mg/l*	Hydrogen Sulfide, H ₂ S	337.5 mg/l*
Total Hardness	392.0		Carbon Dioxide, CO ₂	185.0 mg/l*
Calcium, Ca++	268.0	5360.0	Oxygen, O ₂	1.0 mg/l*
Magnesium, Mg++	124.0	1519.0		
Iron (Total) Fe+++	0.5	10.0		
Barium, Ba++	—	1.0		
Sodium, Na+ (calc.)	1035.1	23867.3		
ANIONS				
Chloride, Cl-	1380.3	40000.0		
Sulfate, SO4--	24.5	1175.0		
Carbonate, CO3--	0.0	0.0		
Bicarbonate, HCO3--	4.0	244.0		
Hydroxyl, OH-	0.0	0.0		
Sulfide, S-	18.8	300.0		

SUSPENDED SOLIDS (QUALITATIVE)

Iron Sulfide ☐ Iron Oxide ☐ Calcium Carbonate ☐ Acid Insoluble ☐

REMARKS AND RECOMMENDATIONS:

WATER SHOWS A TENDENCY TOWARD SCALING; PRIMARILY CALCIUM CARBONATE

* NOTE: me/l and mg/l are comm used interchangeably for epm and respectively. Where epm and ppm used, corrections should be made specific gravity.

ENGINEER MARK BROTHERS	DIST. NO. 12	ADDRESS CARMINGTON, N.M.	OFFICE PHONE 505-325-5701	HOME PHONE 505-325-
----------------------------------	------------------------	------------------------------------	-------------------------------------	-------------------------------

CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

Operator: Jefaco Well No. Ismay Floodline Park V320
 County: San Juan T 406 R 26B Sec. 20 API# 43-037-16193
 New Well ☐ Conversion ☐ Disposal Well ☐ Enhanced Recovery Well ☒

	YES	NO
UIC Forms Completed	<u>✓</u>	
Plat including Surface Owners, Leaseholders, and wells of available record	<u>✓</u>	
Schematic Diagram	<u>✓</u>	
Fracture Information	<u>✓</u>	
Pressure and Rate Control	<u>✓</u>	
Adequate Geologic Information	<u>✓</u>	
Fluid Source	<u>Ismay</u>	

Analysis of Injection Fluid	Yes <u>✓</u> No <u> </u>	TDS <u>81385</u>
Analysis of Water in Formation to be injected into	Yes <u>✓</u> No <u> </u>	TDS <u>81385</u>

Known USDW in area	<u>None</u>	Depth <u>900</u>
Number of wells in area of review	<u>4</u>	Prod. <u>3</u> P&A <u>0</u>
		Water <u>0</u> Inj. <u>1</u>

Aquifer Exemption	Yes <u> </u> NA <u>✓</u>
Mechanical Integrity Test	Yes <u> </u> No <u>✓</u>
Date	<u> </u> Type <u> </u>

Comments: 4230 To c

Reviewed by: ERT

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

6. LEASE DESIGNATION AND SERIAL NO.

I-149-IND-9124

8. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

Ismay-Flodine Park

8. FARM OR LEASE NAME

9. WELL NO.

V320

10. FIELD AND POOL, OR WILDCAT

Ismay-Flodine Park

11. SEC., T., R., W., OR ALG. AND
SURVEY OR AREA

Sec. 20, T40S, R26E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED

AUG 07 1985

DIVISION OF OIL

AND GAS MINING

1. ☐ OIL WELL ☐ GAS WELL ☐ OTHER Water Injection

2. NAME OF OPERATOR
Texaco Inc.

3. ADDRESS OF OPERATOR
P.O. Box EE, Cortez, CO. 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface

2035' FSL & 510' FEL

14. PERMIT NO.

43-037-16193

15. ELEVATIONS (Show whether DF, RT, UA, etc.)

4888' DF

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) Shut-In

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

V320 is currently a shut-in injector. Texaco Inc. requests approval for extending the shut-in period due to possible tertiary recovery methods currently being considered.

18. I hereby certify that the foregoing is true and correct

SIGNED

John B. Meyer

TITLE

Area Supt.

DATE

8/1/85

(This space for Federal or State office use)

APPROVED BY

John B. Meyer

TITLE

Area Manager

DATE

8-9-85

CONDITIONS OF APPROVAL, IF ANY:

BLM (4) - UOGCC (3) - Navajo Tribe - JNH-AJS-ARM

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN _____ LICATION _____
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or to
Use "APPLICATION FOR PERMIT—" for

5. LEASE DESIGNATION AND SERIAL NO.

I-149-IND-9124

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME
Ismay-Flodine Park

8. FARM OR LEASE NAME

9. WELL NO.
V320

10. FIELD AND POOL, OR WILDCAT
Ismay

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

Sec. 20, T40S, R26E

12. COUNTY OR PARISH 13. STATE
San Juan Utah

1. OIL WELL ☐ GAS WELL ☐ OTHER **Water Injection**
2. NAME OF OPERATOR
Texaco, Inc
3. ADDRESS OF OPERATOR
3300 N. Butler, Farmington, NM 87401
DIVISION OF
GAS & MINING
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
2035' FSL & 510' FEL

14. PERMIT NO.
42-027-16123
15. ELEVATIONS (Show whether DF, RT, GR, etc.)
4888' DF

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☒

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

TEXACO INC. proposes to plug and abandon the subject well as described by the attached procedure:

OIL AND GAS	
DFN	RJF
JFB ✓	GLH
DIS	SLS
2-DNR	
MICROFILM	
FILE	

18. I hereby certify that the foregoing is true and correct

SIGNED

Alan G. Kleier

TITLE **Area Manager**

DATE **7/10/90**

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

BLM-FARMINGTON (6), UOGCC (5), Navajo Tribe

Federal approval of this action
is required before commencing
operations.

*See Instructions on Reverse Side

DATE: **7-13-90**
BY: *John R. Byn*

ATTACHMENT

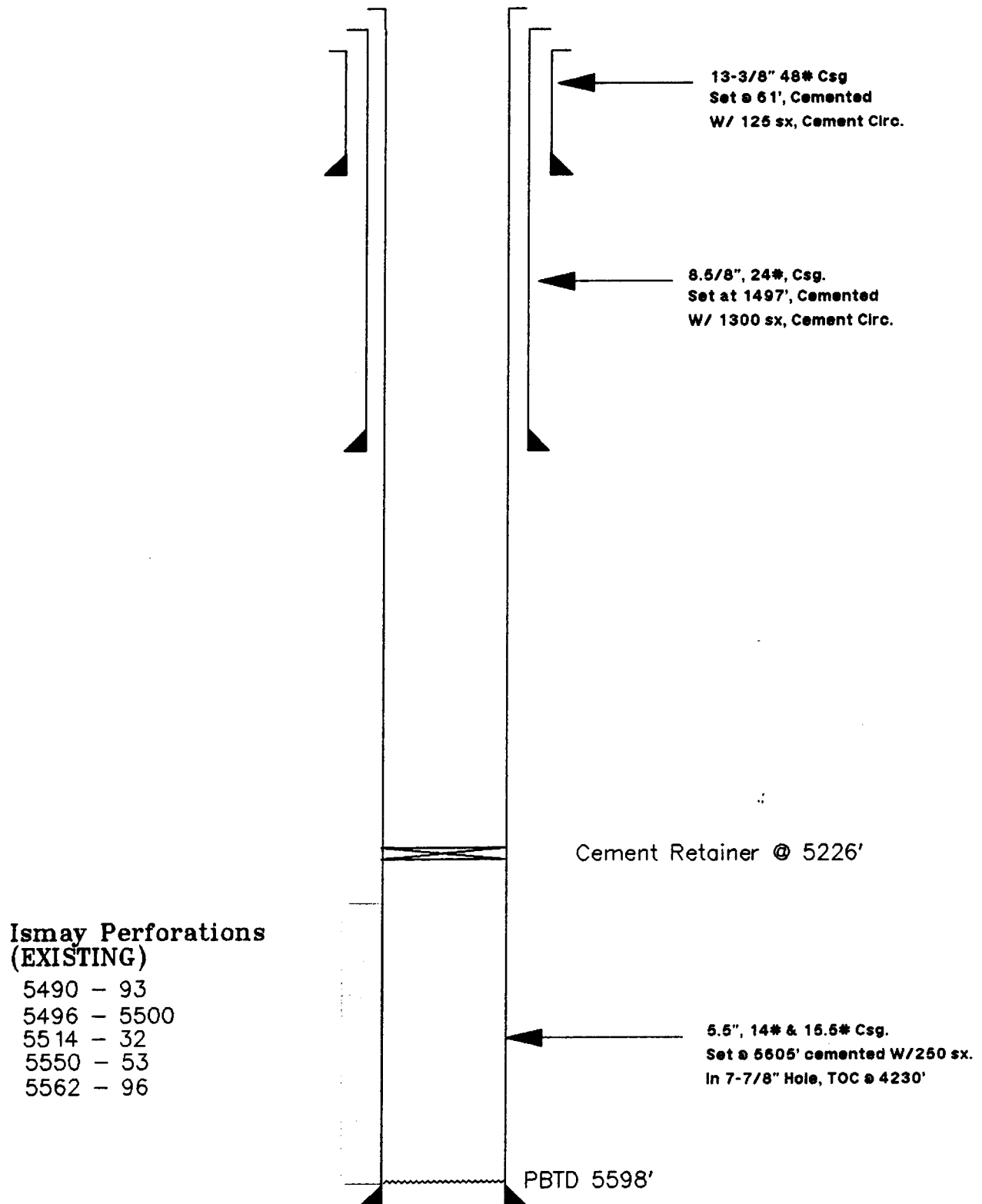
TEXACO INC.

ISMAY - FLODINE PARK UNIT # V320
PLUGGING PROCEDURE

- 1) MIRU pulling unit, install BOP W/ 2-3/8" pipe rams and blind rams. TIH W/ stinger for cement retainer on 2-3/8" tubing; sting into retainer at 5226'.
- 2) Pump 100 sx API Class B (or G) neat cement (5.2 gal water/sx, 1.18 Cu Ft./sx) down tubing. Flush tubing with 10 Bbl water followed by 10 Bbl 10 ppg mud. Pull out of retainer and pump 6 Bbl 10 ppg mud.
- 3) Pull tubing to 4570' (Hermosa). Spot 200' cement plug (36 sx) while pulling out of hole to 4370'. Pump 45 bbl 10 ppg mud to flush tubing. TOH W/ Tubing.
- 4) Rig up wireline service and shoot two squeeze holes at 2580 (De Chelly). RIH with wireline set cement retainer and set at 2480'. Sting into retainer and open 8-5/8" to 5-1/5" casing valve and attempt to break circulation. Pump 65 sx class B cement, flush with 9 Bbl 10 ppg mud. Pull out of retainer and pump 16 Bbls 10 ppg mud. TOH W/ tubing.
- 5) Shoot 2 squeeze holes at 1550 '. RIH with cement retainer and set retainer at 1450'. Try to establish circulation, if established, bring cement to surface; otherwise pump 65 sx, and flush tubing with 5 Bbls 10 ppg mud. Pull out of retainer and pump 29 Bbls 10 ppg mud.
- 6) Spot 50' surface plug (7 sx) in 5-1/2" casing, cut off wellhead, erect marker, remove injection line and deadmen, and clean location.

10 ppg mud = 1 sx Barite / bbl fresh water, Yield = 1.06

TEXACO INC.
Ismay-Flodine Park Unit # V320



TEXACO INC.

Ismay-Flodine Park Unit # V320

Spot 60' surface plug; 7 sx class B cement; cut off wellhead, erect marker, remove deadmen and clean

Shoot two squeeze holes @ 1650';
Try to circulate; pump 65 sx
class B cement

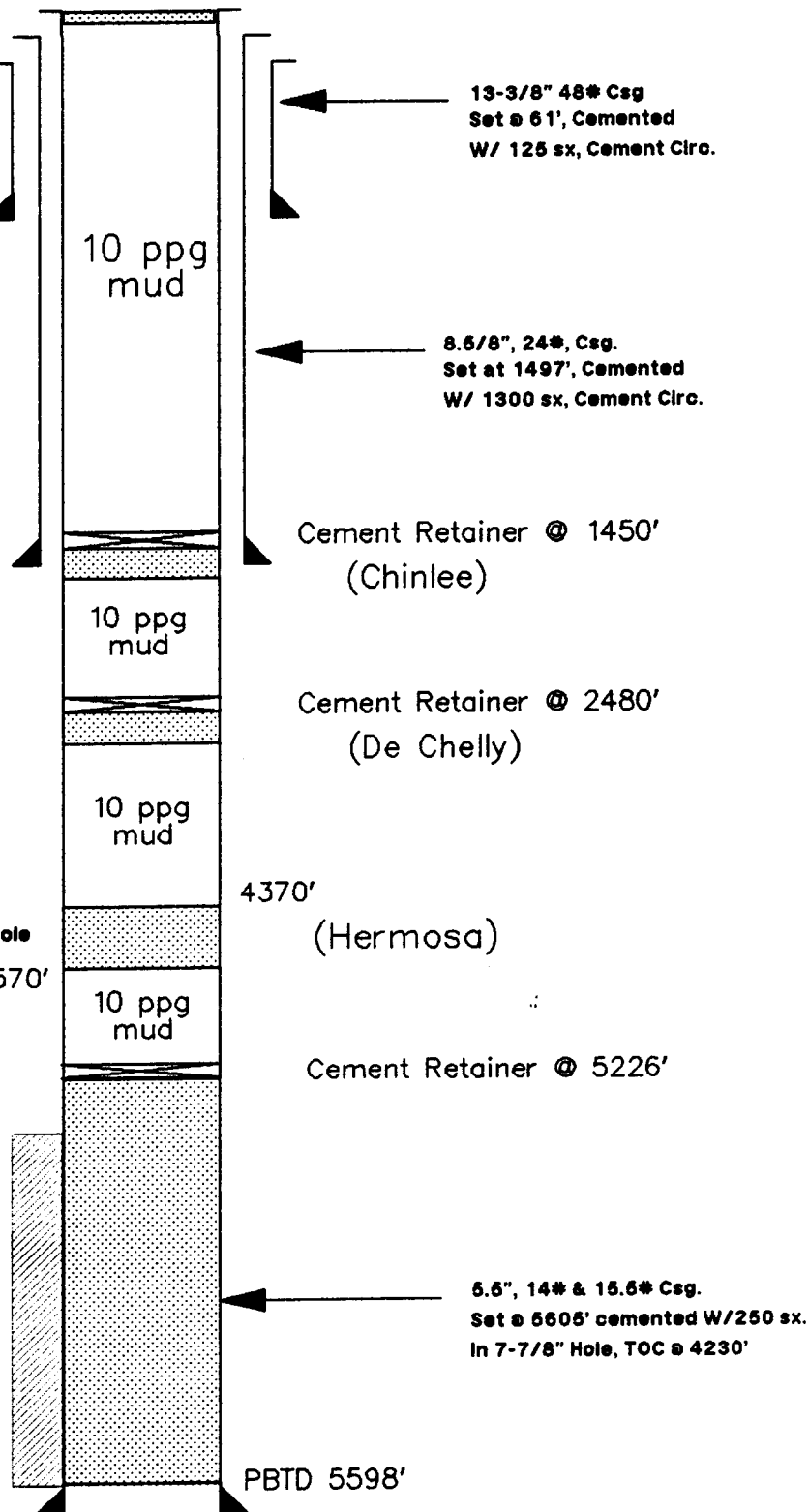
Shoot two squeeze holes @ 2680';
Pump 65 sx class B cement

Spot 200' cement plug; pump 36 sx
class B cement while pulling out of hole

Pump 100 sx API class B cement

Ismay Perforations (EXISTING)

5490 - 93
5496 - 5500
5514 - 32
5550 - 53
5562 - 96



WELL

V-320

OPERATOR

TEXACO

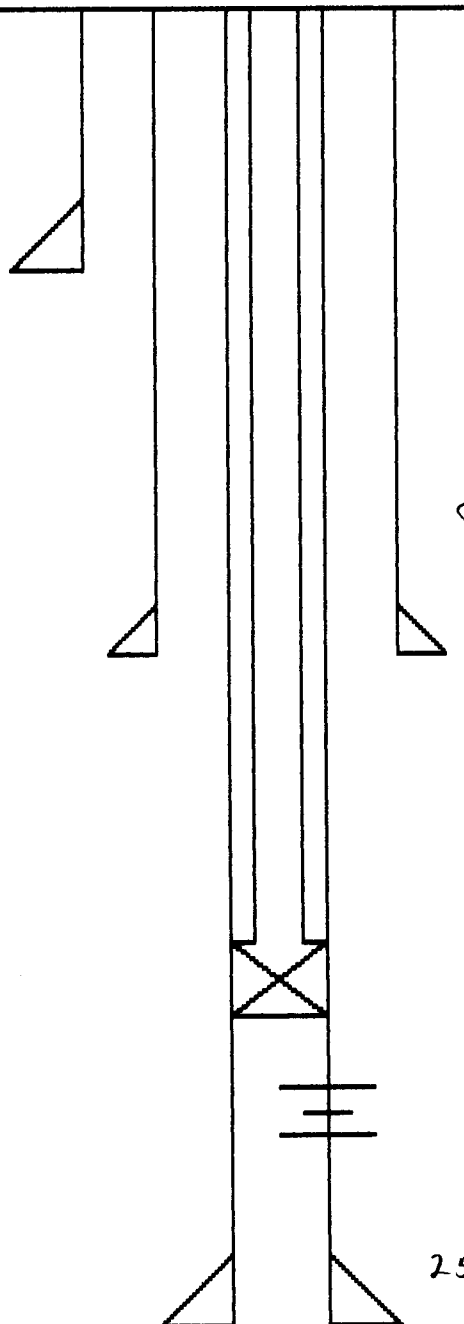
LOCATION

20-40S-26E

COMMENTS

COUNTY

SAN JUAN



125 SX cmt to surface

13 3/8 @ 61'

Chinli 1510

Shinarump 2525

De Chelly 2642

Hermosa 4515'

1300 SX cmt
to surface

8 5/8 @ 1497

2 3/8 TUBING

PACKER AT 5422

250 SX cmt.

5 1/2 @ 5805

PERFS AT

5490-5596

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.

SUBMIT IN TRIPLICATE

RECEIVED

MAR 18 1991

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other **INJECTION WELL**

2. Name of Operator

Texaco Inc.

**DIVISION OF
OIL GAS & MINING**

3. Address and Telephone No.

3300 N. Butler, Farmington N.M. 87401 (505)325-4397

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**5035' FNL, & 510' FEL
NE/SE Sec. 20, T40S / R26E**

5. Lease Designation and Serial No.

I-149-IND-9124

6. If Indian, Allottee or Tribe Name

Navajo

7. If Unit or CA, Agreement Designation

Ismay-Flodine Park

8. Well Name and No.

V320

9. API Well No.

43-037-16193

10. Field and Pool, or Exploratory Area

Ismay

11. County or Parish, State

San Juan, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☐ Subsequent Report
☒ Final Abandonment Notice

TYPE OF ACTION

- ☒ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other _____
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

11-26-90 MIRU, Inst. BOP, TIH W/ stinger on 2-3/8" workstring to 5226'.
11-27-90 SI, Call BLM for 24 hr. notification. RU Halliburton. Est. Rate 3 bpm @ 1000#. Pump 100 Sx. class 'G' neat cmnt. Sting out pump 16 BBL 10 ppg mud. TOH. RU Apollo Perf. Perf 5-1/2" csg. W/ 4JS @2580'. Set WR cmnt ret. @ 2480'. TIH W/ stinger on tbq. Est. rate 1.5 BPM @ 1100#. Pump 65 Sx. class 'G' Neat cmnt. Sting out. Pump 25 BBL 10 ppg mud TOH. Perf. csg. W/4 JS @1550'. Set 5-1/2" ret. @ 1450'. TIH W/ stinger on tbq. Cement 5-1/2" 8-5/8" annulus W/ 166 Sx Class 'G' neat, had communication. TOH W/ tbq., tie on to bradenhead and pump 134 Sx. class 'G' neat down 5-1/2" 8-5/8" annulus.

11-29-90 TIH W/ workstring and tag cmnt @1233'. Circ. 5-1/2" csg. W/ 10 ppg mud. TOH to 217'. Cmt to surface W/ 25 Sx. class 'G' neat cmnt. TOH, fill csg to top W/ cmnt. Job complete 11:00 a.m. 11-29-90. NOTE: 11-28-90 and 11-29-90 Mr. Herman Lujan was present on location. (Will reclaim in spring) FINAL REPORT

14. I hereby certify that the foregoing is true and correct

Signed Alan C. Klein Title Area Manager Date 3/6/91

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side